Title: SPACE DEBRIS MEASUREMENT PROGRAM AT PHILLIPS LABORATORY

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Abstract:

Ground-based optical sensing has been identified as a technique for measuring space debris complementary to radar in the critical debris size range of 1 to 10 cm. The Phillips Laboratory is building a staring optical sensor for space debris measurement and considering search and track optical measurement at additional sites. The staring sensor is implemented in collaboration with Wright Laboratory using the 2.5 m telescope at Wright Patterson AFB, Dayton, Ohio. The search and track sensor is designed to detect and track orbital debris in tasked orbits. Progress report and discussion of sensor performance and search and track strategies will be given.